

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

- Utility Patent Specification -

Inventor: <b>Fred C. Hoyle, IV</b>
Invention: <b>ALL-IN-ONE FITTING BRUSH</b>

Prepared by:

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(P/A File ID: 01-01182NP)  
[Printed: January 23, 2002]

2002-01-23 10:05:00

## Description

**Technical Field**

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5 The present invention relates to brushes for cleaning pipe  
ends, pipe fittings and the like and more particularly to a multi-  
headed cleaning tool that includes a handle having a rotatable end  
fitting for receiving a dog legged shaped shank, a dog leg shaped  
shank having a far end provided with a stop ball with an outside  
band for receiving the back end of the shaft of a cleaning item,  
and a number of cleaning items including detachable brushes and  
shafts adapted for holding sandpaper and the like.

**Background of Invention**

It is often difficult for plumbers and other individuals who  
work with piping tubing and the like to clean the interior of the  
fittings prior to making attachments. Although it is difficult to  
15 perform these cleanings, it is necessary that they be cleaned so  
that a proper joint may be fastened between the pipe and the  
fitting. It would be desirable, therefore, to have a tool that  
included a handle that could be easily attached to any one of a  
number of brushes or other cleaning elements so that the user could  
20 rapidly and easily clean the pipe and/or fitting as needed.

### Summary of Invention

It is thus an object of the invention to provide an all-in-one fitting brush that includes a handle having a rotatable end fitting for receiving a dog legged shaped shank, a dog leg shaped shank  
5 having a far end provided with a stop ball with an outside band for receiving the back end of the shaft of a cleaning item, and a number of cleaning items including detachable brushes and shafts adapted for holding sandpaper and the like.

Accordingly, an all-in-one fitting brush is provided. The  
10 all-in-one fitting brush includes a handle having a rotatable end fitting for receiving a dog legged shaped shank, a dog leg shaped shank having a far end provided with a stop ball with an outside band for receiving the back end of the shaft of a cleaning item, and a number of cleaning items including detachable brushes and  
15 shafts adapted for holding sandpaper and the like.

### Brief Description of Drawings

For a further understanding of the nature and objects of the present invention, reference should be had to the following detailed description, taken in conjunction with the accompanying  
20 drawings, in which like elements are given the same or analogous reference numbers and wherein:

**Figure 1** is a side plan view of an exemplary embodiment of the fitting brush system of the present invention showing the handle,

the dog leg shaped shank, two exemplary detachable brushes and an exemplary shaft having a slot for gripping sandpaper at the far end thereof.

### Exemplary Embodiments

5 Figure 1 shows an exemplary embodiment of the all-in-one fitting brush of the present invention generally designated 10. All-in-one fitting brush 10 includes a handle generally designated 12 having a rotatable end fitting 14 that is adapted for receiving the end 16 of a dog leg shaped shank generally designated 18. Dog  
10 leg shaped shank 18 has a far end 20 that is adapted to receive the shaft portion 26 of a variety of cleaning tools including brushes 30, 32 and sandpaper holding tool 34.

It can be seen from the preceding description that an all-in-one fitting brush has been provided.

15 It is noted that the embodiment of the all-in-one fitting brush described herein in detail for exemplary purposes is of course subject to many different variations in structure, design, application and methodology. Because many varying and different  
20 embodiments may be made within the scope of the inventive concept(s) herein taught, and because many modifications may be made in the embodiment herein detailed in accordance with the

descriptive requirements of the law, it is to be understood that the details herein are to be interpreted as illustrative and not in a limiting sense.

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